

MARKOV, G.S., doktor biologicheskikh nauk, prof.

Types of metabolism in parasitic worms. Uch.zap.Volg.gos.ped.
inst. no.13:90-100 '61. (MIRA 15:12)
(Worms, Intestinal and parasitic) (Metabolism)

MARKOV, G.S., doktor biologicheskikh nauk, prof.; BOGDANOV, O.P., kand.
biologicheskikh nauk

Parasites of desert lizards in Central Asia. Uch.zap.Volg.
gos.ped.inst. no.13:101-123 '61. (MIRA 15:12)
(Soviet Central Asia—Parasites—Lizards)

MARKOV, G.S., doktor biologicheskikh nauk, prof.; KRYUCHKOV, B.P.

Helminths of the turtle Cryptodira in southern Daghestan. Uch.
zap.Volg.gos.ped.inst. no.13:124-133 '61. (MIRA 15:12)
(Daghestan--Parasites--Turtles)
(Daghestan--Worms, Intestinal and parasitic)

MARKOV, G.S.; BOGDANOV, O.P.

New species of Nematoda found in geckos of Central Asia.
Izv. AN Turk. SSR. Ser. biol. nauk no.1:73-77 '62. (MIRA 15:3)

1. Institut zoologii i parazitologii AN Uzbekskoy SSR i
Volgogradskiy pedagogicheskiy institut.
(NEMATODA)
(PARASITES--GECKOS)

MARKOV, G.S.; BOGDANOV, O.P.

A new species of the genus *Thelandros* from the agamas of the
Himalayas. Izv. AN Turk.SSR. Ser.biol.nauk no.2:90-92 '63.

(MIRA 16:5)

1. Volgogradskiy gosudarstvennyy pedagogicheskiy institut i
Institut zoologii i parazitologii AN Uzbekskoy SSR.

(HIMALAYAS—PARASITES—LIZZARDS)

(HIMALAYAS—NEMATODA)

SHAMMAKOV, S.; MARKOV, G.S.

Seasonal, zonal, age and sex differences in the parasites of the
Caucasian agamas of western Turkmenia. Izv. AN Turk. SSR. Ser. biol.
nauk no.2:80-82 '64. (MIRA 17:6)

1. Institut zoologii i parazitologii AN Turkmenskoy SSR i Volgogradskiy
pedagogicheskiy institut.

MARKOV, G.S.; LUKINA, G.P.; MARKOVA, L.I.; MOZGINA, A.A.

Parasites of reptiles in the Northern Caucasus. Izv. zap. Volg.
gos. ped. inst. no.16:99-105 1961. MIRA 1961.

1. Kafedra zoologii Volgogradskogo gosudarstvennogo pedagogi-
cheskogo instituta i kafedra zoologii Kostovskogo gosudarst-
vennogo universiteta.

MARKOV, G.S.; IVANOV, V.P.; KRYUCHKOV, B.P.; LUK'YANOVA, Zh.F.;
NIKULIN, V.P.; CHERNOBAY, V.F.

Protozoans and ticks parasitizing on reptiles on the Caspian Sea
region. Uch. zap. Volg. gos. ped. inst. no.16:106-110 '64.

(MIRA 19-1)

1. Kafedra zoologii Volgogradskogo gosudarstvennogo pedagogi-
cheskogo instituta.

MARKOV, G.S.; TRUSOV, V.Z.; RESHETNIKOVA, A.V.

Effect of spawning migrations of the sturgeon *Acipenser
guldenslandi* Brandt on its parasites. Dokl. zar. nauch. i
ped. inst. no.16:111-124 '64.

1. Kafedra zoologii Volgogradskogo gosudarstvennogo pechatn-
cheskogo instituta i Volgogradskoye otdeleniye Instituta
rybnogo khozyaystva Vserossiyskogo soveta narodnogo khozyaystva.

MARKOV, G.S., prof.; UVAROVA, V.Ya., dotsent; MUKHIN, V.A., dotsent

Ivan Alekseevich Panshin, 1899-1962; an obituary. Uch. zap.
Volg. gos. ped. inst. no.16:174 '64. (MIRA 19:1

L 63395-65 EWT(1)/ENG(v) GS/GW

ACCESSION NR: AT5022964

UB/0000/65/000/000/0003/0022

AUTHOR: Popov, Ye.I.; Markov, G.S. ⁵⁵ ₅₅

22
B+1

TITLE: Experimental gravimetric measurements made from a gyrostabilized platform aboard surface vessels

SOURCE: AN SSSR. Institut fiziki Zemli. ⁵⁵ Apparatura i metody eksperimental'nykh issledovaniy po gravimetrii (Instruments and methods of experimental gravimetric research). Moscow, Izd-vo "Nauka", 1965, 3-22

TOPIC TAGS: gravimeter, gravimetry, research ship instrumentation
_{12,55} _{12,55}

ABSTRACT:

This paper reports on experimental gravimetric measurements carried out in the Barents Sea (1960) and Black Sea (1962) to test and compare the performances of two types of gravimeters-the highly damped GAL-S gravimeters developed by the Institute of Physics of the Earth (IFZ) ⁵⁵ and an Askania-Werke Gss-2 gravimeter-mounted on gyrostabilized platforms whose

Card 1/2

L 63395-65

ACCESSION NR: AT5022964

tilts were controlled by photographing the horizon. Design details and specifications of the instruments, descriptions of the research programs and their execution, methods of data processing, and the results obtained are presented in detail. Orig. art. has 10 formulas, 4 graphs, and 4 tables.

ASSOCIATION: none

SUBMITTED: 19Jan65

ENCL: 00

SUB CODE: ES

NO REF SOV: 005

OTHER: 000

FSB v.1, no.8

Card

mlr
2/2

L 15627-66 ENT(1) GS/CW

ACC NR: AT6008263

SOURCE CODE: UR/0000/65/000/000/0097/0108

AUTHOR: Popov, Ye. I.; Markov, G. S.

ORG: none

TITLE: Some results from investigations of gravimetric apparatus aboard ships in 1963-1964

SOURCE: AN SSSR. Institut fiziki Zemli. Apparatura i metody morskikh gravimetri-
cheskikh nablyudeniy (Apparatus and methods of marine gravimetric observations).
Moscow, Izd-vo Nauka, 1965, 97-108

TOPIC TAGS: gravimetry, surveying ship, marine equipment, gyrostabilized platform

ABSTRACT: The authors report on tests of gravimetric apparatus made from ships with a displacement of 1500 and 2600 t in May 1963 and January-February 1964 by the Institute of Physics of the Earth, AN SSSR, on the Black Sea. The equipment was combined into assemblies consisting of gyrostabilized platforms holding highly damped gravimeters and instruments for monitoring the accuracy of stabilization of the platforms and for evaluating the background of disturbing accelerations. These tests were conducted to: evaluate the convenience of using sets of gravimetric

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L 15627-66

ACC NR: AT6006263

Apparatus and their operational reliability; eliminate the "bugs" in new instruments; evaluate the magnitude and type of disturbing accelerations generated by motions of the ship during various types of swells, and to estimate the magnitude of residual pitching not compensated by hydrostabilization. Repeated independent gravimetric observations were made at the same test station. Radio navigation was used to improve accuracy in determining the coordinates of the ship's position. Ten-minute check observations were made before departure, after docking and once or twice during the day. The problems involved in calculating the corrections for declination and acceleration disturbances are discussed. A table showing average amplitudes of declinations and accelerations shows that the correction for disturbing declinations and accelerations reaches +25.5 mgal in one case where the component of horizontal acceleration is 48.0 gals. Data from analysis of the synchronous sections of gravimetric recordings were used in an attempt to evaluate the effect of orbital motions of the stabilized platform with its gravimeter. This effect was found to be approximately 20-40 mgal at accelerations of 50 gals. It is recommended on the basis of these tests that strongly damped gravimeters, hydrostabilized platforms and monitoring equipment should be unified into a single system. Orig. art. has: 4 figures, 1 table. [14]

SUB CODE: 13/

SUBM DATE: 29Oct65/

ORIG REF: 003/

QRT REF: 000

TS
Cat 2/2

MARKOV, G.S.; IVANOV, V.P.; NIKULIN, V.P.; CHERNOBAY, V.F.

Helminths of reptiles of the Volga Delta and the Caspian steppes.
Trudy Astr. zap. no.6:145-172 '62. (MIRA 16:7)

(Caspian Sea region—Worms, Intestinal and parasitic)
(Caspian Sea region—Parasites—Reptiles)

SOV/137-58-10-20718

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 54 (USSR)

AUTHORS: Il'ichev, V.A., Markov, G.S.

TITLE: Production of Anhydrous Carnallite and Magnesium Chloride
(Proizvodstvo bezvodnogo karnallita i khloristogo magniya)

PERIODICAL: V sb.: Legkiye metally. Nr 4. Leningrad, 1957, pp 85-87

ABSTRACT: A review of investigations performed in the USSR to improve the procedure for recovery of and the design of new industrial equipment for the production of anhydrous $KCl \cdot MgCl_2$ and $MgCl_2$ from carnallite, bischoffite, saline lake water, and other sources.

Ye.Z.

1. Magnesium chlorides--Production 2. Magnesium-potassium chlorides
--Production 3. Chlorides--Sources

Card 1/1

STRELETZ, Kh.L.; TAYTS, A.Yu.; GULYANITSKIY, B.S.; PAZUKHIN, V.A., prof.,
doktor tekhn.nauk, retsenzent; KHEYFITS, Ya.M., kand.khim.nauk,
retsenzent; VERIGIN, V.N., kand.tekhn.nauk, retsenzent; FISHER,
A.Ya., kand.tekhn.nauk; retsenzent; TSENTER, Ya.A., kand.tekhn.
nauk, retsenzent; MARKOV, G.S., inzh., retsenzent; KRIVORUCHENKO,
V.V., inzh., retsenzent; CHERNOBROV, S.M., red.; ARKHANGEL'SKAYA,
M.S., red.izd-va; KLEYMAN, M.R., tekhn.red.

[Magnesium metallurgy] Metallurgiya magniia. 1zd.2.. perer. i
dop. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi
metallurgii, 1960. 479 p. (MIRA 13:5)
(Magnesium--Metallurgy)

DESYATNIKOV, O.G.; DUNAYEV, D.V.; YEVSEYEV, D.I.; IVANOV, I.N.;
MARKOV, G.S.; PARFANOVICH, B.V.; CHERNIN, V.N.; KHODYKO, A.D.

Concerning V.M. Chel'tsov and I.D. TSaregorodtsev's
article "Vacuum furnaces ~~for~~ the silicothermal method
of obtaining magnesium." TSvet. met. 35 no.7:92
Jl '62. (MIRA 15:11)

(Magnesium--Metallurgy)
(Chel'tsov, V.M) (TSaregorodtsev, I.D.)

MARKOV, G. T.

64T103

USSR/Radio
Antennas, Dipole
Mathematics, Applied

Jan/Feb 1948

"Approximate Calculation of the Mutual Effect Between Antennas," G. T. Markov, Candidate Tech Sci,
4 pp

"Radiotekh" Vol III, No 1

Gives approximation formulas for the mutual effect between antennas, in particular, arbitrarily oriented symmetrical vibrators (dipoles) situated far apart from each other. Submitted 21 Jul 1947.

64T103

PA 42/49T99

MARKOV, G.

USSR/Radio Receivers
Volume Control

Apr 49

"The Simplest Rural Radio Receiver O-V-1," G. Markov,
2 pp

"Radio" No 4

Circuit diagram and operation of two-tube receiver,
designed for long- and medium-wave reception.
A feedback coil is employed, one end of which is
connected to the plate of the detector tube, and
the other to the feedback line through a blocking
condenser and a variable condenser. Volume is
regulated by turning the variable condenser in the
feedback line.

42/49T99

W-17744, 12 Apr 51

MARKOV, G. T.

USSR/Physics - Wave Guide

May 52

"Excitation of a Round Wave Guide," G. T. Markov

"Zhur Tekh Fiz" Vol XXII, No 5, pp 747-758

Solves inhomogeneous vector wave eq in a system cylindrical coordinates. Determines elec and magnetic waves of outside elec and magnetic currents, distributed in homogeneous isotropic space. The soln is applied to analysis of problems of int and external excitation of a round ideally conducting and endlessly long tube. Received 10 Nov 51.

22276

MARKOV, G. I.

"Excitation of an Infinite Wedge," by G. T. Markov, Tr. Mosk. Energ. In-ta, No 21, 1956, pp 4-15 (from Referativnyy Zhurnal -- Fizika, No 10, Oct 56, Abstract No 29508)

The expressions of expansion coefficients of spectra of electric and magnetic vectorial field potentials, generated by arbitrary distribution of outside field sources in the presence of a perfectly conducting wedge with an opening angle are obtained. The solution is obtained in cylindrical coordinates. The coefficients of expansion are found in the usual way, i.e., by using orthogonal proper functions of the problems. The preliminary expressions of coefficients of expansion contain as a common factor an integral over the coordinates x and z of the wave vector. The integration over x is carried out in such a way that the final reduction of the expression contains only an integral of the z component of the wave vector. Expressions for the distant field are also given.

54M.1305

112-2-4716

TRANSLATION FROM: Referativnyy zhurnal, Elektrotekhnika, 1957,
Nr 2, p. 320 (USSR)

AUTHOR: Markov, G.T.

TITLE: Excitation of a Rectangular Waveguide (Vozbuzhdeniye
pryamougol'nogo volnovoda)

PERIODICAL: Tr. Mosk. energ. in-ta, 1956, Nr 21, pp. 16-24

ABSTRACT: The derivation of formulas is given for the resolution
ratio of vector field potentials in a rectangular waveguide
excited by a given distribution of outside magnetic and electri
currents. As an example, the excitation of an H_{01} -mode by an
electrical dipole, by the transverse and longitudinal slits in
the broadside of a waveguide is discussed.

B.E.K.

Card 1/1

Name: MARKOV, Grigoriy Timofeyevich

Dissertation: Stimulation of water waves and antennas

Degree: Doc Tech Sci

Affiliation: [not indicated]

Defense Date, Place: 24 Feb 56, Council of Moscow Order of Lenin Higher
Engineering Inst - *see notes*

Certification Date: 11 May 57

Source: BMVC 15/57

11447-1

AUTHOR: Markov, G.T.

109-4-8/20

TITLE: The Problem of the Excitation of an Ellipsoid of Revolution.
(K voprosy o возбуждении ellipsoida vrashcheniya)

PERIODICAL: Radiotekhnika i Elektronika, 1957, Vol.2, No.4,
pp. 433 - 437 (USSR).

ABSTRACT: The problem of nonsymmetrical excitation of an ellipsoid has as yet no satisfactory solution, in spite of the recent efforts of Spence and Wells (Ref.3). An attempt is made, therefore, to tackle the problem, especially in view of the fact that complete tables of spheroidal functions have recently become available (Ref.4). The ellipsoid is assumed to be excited by outside (external) electric and magnetic currents which are located within a certain volume V . The external field at the surface of the ellipsoid is H^1 and the induced magnetic field (at the surface) is H^{11} , so that the total field is equal to:

$$H = H^1 + H^{11}.$$

Expressions for the field H^{11} are derived in elliptic and in rectangular co-ordinates (H_x^{11} , H_y^{11} and H_z^{11}). The expression for H_x^{11} , H_y^{11} and H_z^{11} are in the form of a double infinite

Card 1/2

The Problem of the Excitation of an Ellipsoid of Revolution. 109-4-8/20

series consisting of spheroidal functions and of trigonometric functions with unknown coefficients. By considering the boundary conditions at the surface of the ellipsoid, the unknown coefficients can be evaluated by solving an infinite number of algebraic equations. In practice, it is sufficient to determine only a limited number of these coefficients and thus obtain an approximate solution. Equations for the evaluation of the coefficients are given.

There are 4 references, 1 of which is Slavic.

SUBMITTED: June 5, 1957.

AVAILABLE: Library of Congress.

Card 2/2

MARKOV, G.T.

Equivalence theorem. Nauch.dokl.vys.shkoly; radiotekh.i elektron.
no.4:22-31 '58. (MIRA 12:6)

1. Kafedra antennykh ustroystv i rasprostraneniya radiovoln Moskov-
skogo energeticheskogo instituta.
(Electrodynamics)

8(0)

SOV/112-59-4-6461

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 4, p 7 (USSR)

AUTHOR: Markov, G. T. Doktor tekhn. nauk.

TITLE: On the Solution of Boundary-Value Problems in Electrodynamics

PERIODICAL: Tr. Mosk. energ. in-ta, 1958, Nr 30, pp 126-141

ABSTRACT: The solution of many boundary-value problems has the form of superposed primary and secondary fields. The primary field is a field of facial currents distributed in an unlimited uniform space; the secondary field is a field of currents that are induced in inhomogeneities. The surface of an inhomogeneity is assumed to coincide with one of the coordinate surfaces. With a harmonic time-variation of the electromagnetic-field magnitudes, the Maxwell equations are reduced to nonhomogeneous wave equations of the type $\Delta F + k^2 F = -f$. Such an equation is solved in Cartesian, circular cylindrical, spherical, and spheroidal coordinates. The solutions are reduced to presentations of the Green function in the above coordinate systems. In addition, expressions of the Dirac function in cylindrical and spherical coordinates are presented.

Moskovskiy ordena Lenina energeticheskiy Institut, Kafedra antennoykh i volnovodnykh ustroystv
Card 1/1 V. A. G. eniya radiovoln.

NADENENKO, Sergey Ivanovich; PISTOL'KORS, A.A., retsenzents; MARKOV, G.T.,
prof., retsenzents; KOCHERZHEVSKIY, G.N., kand.tekhn.nauk, otv.
red.; VORONOVA, A.I., red.; SHEFER, G.I., tekhn.red.

[Antennas] Antennay. Moskva, Gos.izd-vo lit-ry po voprosam
svyazi i radio, 1959. 550 p. (MIRA 12:11)

1. Chlen-korrespondent AN SSSR (for Pistol'kors).
(Antennas (Electronics))

PHASE I BOOK EXPLOITATION

SOV/5266

Markov, Grigoriy Timofeyevich

Antenny (Antennas) Moscow, Gosenergoizdat, 1960. 534 p. 16,000 copies printed.

Tech. Ed.: K. P. Voronin.

PURPOSE: This book has been approved by the Ministry of Higher and Secondary Specialized Education of the RSFSR as a textbook for use in radiotechnical divisions at schools of higher education. It may also be useful to radio specialists in industrial establishments and scientific research institutes.

COVERAGE: The book is based on a series of lectures delivered by the author at the radiotechnical division of the Moskovskiy Energeticheskiy Institut (Moscow Power Engineering Institute). The author discusses the general theory of radio transmission and reception, transmission lines, and types of antennas. Special attention is paid to ultrashort-wave antennas. Modern trends in antenna development are taken into consideration. The reader is assumed to

~~Card 1/11~~

Antennas

SOV/5266

have a basic knowledge of higher mathematics and of the theory of the electromagnetic field. The participation of the following persons is acknowledged: O. N. Tereshin, Docent, who wrote the section concerning the design of antennas with a given radiation pattern; Ye. N. Vasil'yev, Docent, and D. A. Duplenkov, Aspirant, who wrote the section concerning ferrite devices; and D. M. Sazonov, Aspirant, and O. N. Nosov, Engineer, who wrote the section on designing simple wide-band antennas. The author thanks A. A. Pistol'kors, Corresponding Member of the Academy of Sciences USSR, M. P. Dolukhanov, Professor, and G. N. Kocherzhevskiy, Docent, for their assistance. There are 83 references: 54 Soviet, 25 English, 1 German, 1 Czech, 1 Swedish, and 1 French.

TABLE OF CONTENTS:

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Card 2/11	

MARKOV, G.T.; PANCHENKO, B.V.

Green's tensor functions of rectangular waveguides and cavity resonators. Izv. vuzov. Radiofizika, 1964, 7, no. 4, 1614-1624. 11 refs.

ZHILEYKO, Georgiy Ivanovich, dots.; LEBEDEV, I.I., prof.,
retsenzent; MARKOV, G.I., prof., retsenzent;
FEDOROV, N.N., dots., retsenzent; VZYATYSHEV, V.F.,
assisten, red.;

[Interaction between electrons and an electromagnetic
field] Vzaimodeistvie elektronov s elektromagnitnym
polem. Moskva, Energ. in-t, 1963. 55 p.

(MIRA 18:1)

1. Kafedra teoreticheskikh osnov radiotekhniki Moskov-
skogo energeticheskogo instituta (for Zhileyko).

KOVALENKO, A.N.; MARKOV, G.T.

Radiation from dipole antennas on the edge of a wedge. Izv. Vys.
ucheb. zav.; radiofiz. 7 no.3:564-570 '64. (MIRA 11:11)

1. Moskovskiy energeticheskiy institut.

L 63759-65 EWT(1)/EEC-4/EEC(t)/T/FCS(k) Pac-4/P1-4/Pj-4/P1-4 WR

ACCESSION NR: AP5010684

UR/0141/65/008/001/0142/0152

AUTHOR: Markov, G. T.; Duplenkov, D. A.; Osipovich, N. F.

TITLE: Radiation from a prolate spheroidal impedance antenna 25B

SOURCE: IVUZ. Radiofizika, v. 8. no. 1, 1965, 142-152

TOPIC TAGS: spheroidal antenna, impedance antenna, directivity pattern

ABSTRACT: The article deals with a prolate spheroid with impedance surface (having finite conductivity), excited by an annular slot (an infinitely narrow loop of surface magnetic-current density, dropped on the surface of the spheroid). The surface impedance and the field in the slot are independent of the azimuthal coordinate. The solution is sought in the form of an expansion of the unknown electromagnetic field in a system of spheroidal functions. The impedance spheroid is assumed to be coaxial with the exciting magnetic loop. In the general case, when the surface impedance is specified, the boundary conditions on the surface of the spheroid are satisfied only for the total field. In one particular case, however, when the surface impedance exhibits a dependence on the longitudinal coordinate, each spatial harmonic separately satisfies the boundary conditions, and the solution can

Card 1/2

L 63759-65

ACCESSION NR: AP6010684

be obtained in relatively simple form. By choosing the magnitude of the surface impedance and leaving the law governing its variation unchanged, it is possible to emphasize any particular spatial harmonics and by the same token modify greatly the directivity characteristics of the antenna. Directivity patterns are calculated in this manner for two dimensions of the spheroid, and for different positions of the slot along the spheroid axes, as well as for different surface impedances. The results are illustrated with numerous plots. It is pointed out in the conclusion that the radiation of prolate spheroidal antenna with arbitrary magnitude and with arbitrary variation of the impedance along the body can be calculated in the same manner, but the evaluation of the coefficients will then entail great mathematical difficulties. Orig. art. has: 13 figures, 18 formulas, and 1 table.

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Power Engineering Institute)

SUBMITTED: 04Mar64

ENCL: 00

SUB CODE: EC, EM

NR REF SOV: 002

OTHER: 002

Card 2/2

1 13120-66 EWT(1) IJP(c)

ACC NR: AP5020365

SOURCE CODE: UR/0141/65/008/003/0531/0539

AUTHOR: Narkov, G. T.; Petrov, B. M.

ORG: Moscow Power Engineering Institute (Moskovskiy energeticheskiy institut)

TITLE: Excitation of an impedance strip on a semiplane

SOURCE: IVUZ. Radiofizika, v. 8, no. 3, 1965, 531-539

TOPIC TAGS: magnetic field intensity, Fredholm equation, Green function, traveling wave

ABSTRACT: The problem is formulated by considering a conducting semiplane with a given distribution of electric and magnetic current densities and given boundary conditions along the edges of the strip. In the solution, the equation for the magnetic field intensity contains vectors for the auxiliary field of a magnetic dipole with unit moment situated at the observation point. The auxiliary field is selected so that the equations for the electric and magnetic surface currents are reduced to Fredholm equations of the second type with finite integration limits. Integral equations of currents are obtained on the strip for TM and TE

UDC: 621.371

Card 1/2

L 13120-66

ACC NR: AP5020365

waves. For the TM waves, the integral equation for the magnetic current is solved approximately by the Krylov-Bogolyubov method. Graphs showing the distribution of the magnetic current on the strip as well as the directional pattern of the impedance strip excited by a slit of finite width are presented. The graphs show that the position of the impedance strip with respect to the edge of the semiplane has a weak effect on the distribution of the magnetic current in the strip. When the distance from a strip to the edge of the semiplane is decreased, there is a slight decrease in the traveling wave ratio for the current. However, this effect is very small, although there is a substantial change in the radiation pattern. The radiation pattern of the antenna also depends substantially on the position of the latter with respect to the edge of the semiplane. The authors are grateful to L.S. Yakobso for programming the computer for the calculations. Orig. art. has: 6 figures, 19 equations.

SUB CODE: 09,20/ SUBM DATE: 17Aug64/ ORIG REF: 005/ OTH REF: 001

Card 2/2 MW

L 13354-66

ACC NR: AP6001936

SOURCE CODE: UR/0142/65/008/006/0676/0685

AUTHOR: Markov, G. T.; Petrov, B. M.

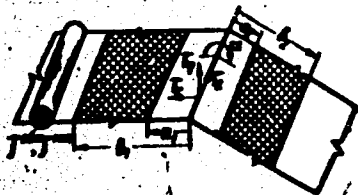
ORG: none

TITLE: Excitation of impedance strips on a wedge

SOURCE: IVUZ. Radiotekhnika, v. 8, no. 6, 1965, 676-685

TOPIC TAGS: impedance antenna, antenna, electric impedance, Maxwell equation, integral equation, electric current, electromagnetic field

ABSTRACT: A general case of excitation of finite-length impedance strips by concentrated sources is considered; the strips are situated on the sides of an arbitrary-angle α (see figure) infinite wedge, and the impedance is assumed to be nonuniform. This general case is important for the theory of impedance antennas. Assuming that the distribution of volume density of the exciting electric and magnetic currents is specified as are the impedance boundary conditions for the lower side of the wedge, the electromagnetic field is determined which everywhere satisfies the Maxwell equations, at infinity satisfies the radiation condition, within the wedge sides satisfies specified conditions, and in other parts satisfies zero



Impedance strips
on a wedge

Card 1/2

UDC: 621.396.67.012.12

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L 13354-66

ACC NR: AP6001936

boundary conditions. Integral equations are set up on the basis of the above assumptions. The integral equation of magnetic current in one strip is solved for TM modes by the Krylov-Bogolyubov method; the impedance strip is situated on the upper side of the wedge and is excited by a slot cut in the same side. Diagrams of distribution of the magnetic currents over the strip are presented. The antenna directional pattern is found to be strongly dependent on the angle α . Orig. art. has: 5 figures and 43 formulas.

SUB CODE:09,20/ SUBM DATE: 17Aug64 / ORIG REF: 004 / OTH REF: 004

Card 2/2

L 6851-65 EWT(1)/EEG-4/FCB(k)/EWA(m)-2 P1-4/PJ-4/P1-4 ASD(a)-5/AFETR/AFWL/
APOC(b)/RAEM(a)/SSD/AFTC(b)/ESD(c)/ESD(ga)/ESD(t)/RAEM(t) WR
ACCESSION NR: AP4044114 3/0141/64/007/003/0565/0570

AUTHORS: Kovalenko, A. N.; Markov, G. T.

TITLE: Radiation from dipole antennas on the edge of a wedge

SOURCE: IVUZ. Radiofizika, v. 7, no. 3, 1964, 566-570

TOPIC TAGS: dipole antenna, antenna configuration, antenna feed, radiation resistance

ABSTRACT: A general solution of the excitation of an infinite ideal conducting wedge by means of an antenna was considered by one of the authors previously (G. T. Markov, Trudy* MEI, no. 21, Radio-tekhnika, Gosenergoizdat, M. 1956). In the present communication the authors investigate the radiation of a horizontal symmetrical dipole, a vertical dipole, and a folded dipole; it is assumed in all cases that the electric current in the dipole has a sinusoidal distribution. An approximate formula, accurate to within 4%, is

Card 1/2

L 6851-65

ACCESSION NR: AP4044114

derived for the radiation resistances of all three types of dipoles. Plots are given for the radiation resistance of all types of dipoles and for the directivity pattern of the folded dipole. Orig. art. has: 5 figures and 16 formulas.

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Power-Engineering Institute)

SUBMITTED: 06Dec53

ENCL: 00

SUB CODE: EC

NR REF SOV: 002

OTHER: 001

Card 2/2

KONDRAT'YEV, Afenasiy Borisovich, kand.tekhn.nauk; YEREMOVA, Galina Nikolayevna, inzh.; MEN'SHIKOV, Ivan Alekseyevich, prof., doktor tekhn.nauk; MOSKOVSKIY, Mikhail Ivanovich, kand.tekhn.nauk; SOBOLEV, David Iosifovich, kand.tekhn.nauk; SMIL'GEVICH, Petr Kazimirovich, inzh.; SHIROKOV, Boris Ivanovich, kand.sel'sko-khoz.nauk. Prinimeli uchastiye: TREBIN, Boris Nikolayevich, inzh.; OSOBOV, Vadim Izrailevich, inzh. BRIK, P.A., prepodavatel', retsenzent; IVANOV, V.A., prepodavatel', retsenzent; KOGANOV, A., prepodavatel', retsenzent; KONONOV, B.V., prepodavatel', retsenzent; MARKOV, G.Ya., prepodavatel', retsenzent; OSIPOV, G.P., prepodavatel', retsenzent; RYABOV, P.I., prepodavatel', retsenzent; SOLOV'YEV, K.Ya., prepodavatel', retsenzent; SOROKIN, V.Ya., prepodavatel', retsenzent; BANNIKOV, P., red.; VORONKOVA, Ye., tekhn.red.

[Manual for collective farm machinery operators] Spravochnik mekhanizatora sel'skogo khoziaistva. Penza. Penzenskoe knizhnoe izd-vo, 1959. 610 p. (MIRA 14:2)

1. Saratovskiy institut mekhanizatsii sel'skogo khozyaystva imeni M.I.Kalinina (for Brik, Ivanov, Koganov, Kononov, Markov, Osipov, Ryabov, Solov'yev, Sorokin).
(Agricultural machinery) (Farm mechanization)

MARKOV, G.Ya., inzh.

Some concepts of preventive maintenance in electronic calculating machines. [Trudy] MVTU no.2:99-107 '59.

(MIRA 13:5)

(Electronic calculating machines)

MARKOV, G.Ye.

~~MARKOV, G.Ye.~~

Formation of the Turkmen population in the Khorezm Oasis. Sov. etn. no. 4:
41-55 '53. (MLR 6:12

(Khorezm--Anthropo-Geography) (Anthropo-Geography--Khorezm)

MARKOV, Gennadiy Yevgen'yevich; BUKANOVA, L.P., red.; KOZLOVA, T.A.,
tekhn. red.

[Peoples of Indonesia] Narody Indonezii; uchebnoe posobie.
Moskva, Izd-vo Mosk. univ., 1963. 38 p. (MIRA 16:7)
(Indonesia--Ethnology)

MARKOV, Georgiy, [Markov, Georgi], starshiy nauchnyy sotrudnik

Estimate year and some multiple indices in soil improvement planning.
Gidr. i mel. 14 no.1:53-61 Ja '63. (MIRA 16:2)

1. Institut vodnogo khozyaystva i stroitel'stva Bolgarskoy akademii nauk.

(Bulgaria--Irrigation farming)

MARKOV, I.

Filler containing no oil. Stroitel' 9 no.2:14, 4 of cover
P '63. (MIRA 16:2)
(Finishes and finishing)

MAKSIMOV, Vasilii Mikhaylovich, dotsent, kand.geologo-miner.nauk; ASATUR, K.G., dotsent, kand.tekhn.nauk; DAVIDOVICH, V.I., dotsent, kand.tekhn.nauk; ALBUL, S.P., kand.geologo-miner.nauk; PAUKER, N.G., inzh.-gidrogeolog; OSTROUMOV, B.P., gidrotekhnika; ZAYTSEV, I.K., doktor geologo-miner.nauk; TOLSTIKHIN, N.I., prof., doktor geologo-mineral.nauk; REZNIKOV, A.A., kand.khim.nauk, starshiy nauchnyy sotrudnik; MERSHALOV, A.F., assistant; VOROTYNTSEV, V.T., dotsent, kand.tekhn.nauk; MARKOV, I.A., dotsent, kand.geologo-miner.nauk; KERKIS, Ye.Ye., dotsent, kand.geologo-miner.nauk; KHITROV, I.N., inzh.-geolog; BOROVITSKIY, V.P., kand.geologo-miner.nauk; RAVDONIKAS, O.V., kand.geologo-miner.nauk; ONIN, N.M., kand.geologo-miner.nauk; BASKOV, Ye.A., inzh.-gidrogeolog; NOVOZHILOV, V.N., dotsent, kand.geologo-miner.nauk; PEKEL'NIY, I.S., inzh.-gidrogeolog; NEVEL'SHTEYN, Yu.G., inzh.-gidrogeolog; BOSKIS, S.G., inzh.-gidrotekhnika; NIKIFOROV, Ye.M., inzh.-gidrogeolog; GATAL'SKIY, M.A., prof., doktor geologo-miner.nauk, nauchnyy red.; DOLMATOV, P.S., vedushchiy red.; GEN-NAD'YEVA, I.M., tekhn.red.

[Hydrologist's handbook] Spravochnoe rukovodstvo gidrogeologa. Leningrad, Gos.nauchno-tekhn.izd-vo nef. i gorno-toplivnoi lit-ry, Leningr.otd-nie, 1959. 836 p. (MIRA 12:4)

1. Vsesoyuznyy geologicheskii nauchno-issledovatel'skiy institut (for Reznikov).

(Hydrology)

MARKOV, Ivan Aleksandrovich; BAGRANOVA, N., red.; SKVORTSOVA, L., tekhn.
red.

[Heroic work of Sameti villagers; a propagandist's account] Podvig
Sameti; rasskaz propagandista. Kostroma, Kostromskoe knizhnoe izd-
vo, 1960. 24 p. (MIRA 14:7)

(Collective farms)

MARKOV, I.F., agronom

Cultivation of virgin and waste lands. Trudy Biol. inst. Zap.-Sib.
fil. AN SSSR no.3:127-129 '57. (MIRA 13:10)

1. Tatarskaya mashinno-traktornaya stantsiya Novosibirskoy
oblasti.

(Novosibirsk Province--Tillage)

LYSKOV, M.I., inzhener; MARKOV, I.O., inzhener.

Modernized presses. Bum.prom. 31 no.5:24-25 My '56. (MLRA 9:8)
(Papermaking machinery)

MARKOV, I.G.

Production of woodpulp, paper, and paperboard from annual plants.
Bum.prom. 33 no.11:12-13 N '58. (MIRA 13:8)

1. Ukrainskiy nauchno-issledovatel'skiy institut tsellyuloznoy i
bumazhnoy promyshlennosti.
(Woodpulp) (Paper)

MARKOV, I.G.

Manufacturing pulp, paper and cardboard from annual plants.
Bum. prom. 33 no.12:13-16 D '58. (MIRA 11:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut tsellyuloznoy
i bumazhnoy promyshlennosti.
(Woodpulp industry—Equipment and supplies)

POTEYEV, S.P., otv.red.; LEBEDEV, P.A., red.; GOLUB, N.V., red.;
DOYCHENKO, G.P., red.; IKHEL'ZON, S.M., red.; MARKOV, I.G.,
red.; SAP'YAN, A.Yu., red.; MARKUSIK, N., red.; SHAFETA, S.,
tekhn.red.

[Latest developments in woodpulp and paper production] Novoe
v tselliulozno-bumazhnom proizvodstve. Kiev. Gos.isd-vo
tekhn.lit-ry USSR, 1960. 93 p. (MIRA 14:3)

1. Ukrainskiy nauchno-issledovatel'skiy institut tsellyuloznoy
i bumazhnoy promyshlennosti.
(Woodpulp)

FOTEYEV, S.P.; FAVORSKAYA, Ye.Ya.; MARKOV, I.G.

Cane sulfite pulp. Bum. prom. 36 no.8:8-10 Ag '61. (MIRA 14:8)

1. Ukrainskiy nauchno-issledovatel'skiy institut tsellyuloznoy
i bumazhnoy promyshlennosti.
(Woodpulp)

MALAKHOVA, N.I.; ZAGORUL'KO, A.A.; MARKOV, I.G.

Boiling of reed semicellulose under atmospheric pressure.
Bum.i der.prom. no.1:30-33 Ja-Mr '62. (MIRA 15:5)

1. Ukrainskiy nauchno-issledovatel'skiy institut
tsellyulozno-bumazhnoy promyshlennosti.
(Paper)
(Reed products)

S/852/62/000/000/016/020

B106/B:01

AUTHOR: Markov, I. I.

TITLE: Use of some polymers in chemical and chemico-metallurgical works

SOURCE: Primeneniye polimerov v antikorrozionnoy tekhnike, Ed. by I. Ya. Klinov and P. G. Udyama, Moscow, Mashgiz, 1962. Vses. sovet nauchno-tekhn. obshchestv. 123 - 124

TEXT: Reference is made to products made from polymeric material manufactured by the "Montazhkhimzashchita" trust and applied in chemical and metallurgical industry. From 1952, welded vinyplast containers for electrolytic tanks began to be used in the copper electrolysis works of this trust. 600 solid vinyplast vessels were produced for ferromagnesium works. The works of the trust turn out vinyplast pumps, fans, desalting units and ventilating systems for synthetic fiber works. A Cottrell filter 4.4.10 m was made of PVR (MMV) vinyplast. Since 1952, more than 1 million m² multilayered "perchlorvinyl" coatings have been produced which are being used for construction in various chemical works and may reach a life of 5 years or more. Since 1959, fanblades and other small apparatus

Card 1/2

Use of some polymers in ...

S/852/62/000/000/016/020
B106/B101

and machine parts have been sprayed with polyethylene in a UPN-4L unit. Arzamt 1, 4, and 5 are used for the lining of apparatus and sewer systems and the protection of floors in factories producing synthetic rubber, synthetic alcohol, and synthetic fibers. Arzamt 5 is used also for lining heat exchangers or apparatus exposed to fluorine containing media, with graphite blocks and ATM-1 (ATM-1) slabs. For chlorine works, a protective covering of masticated rubber has been developed for floors required to be impervious to mercury. To protect the pulp boilers in cellulose - paper combines, GOST 8481-61 (GOST 8481-61) glass fabrics and polymers are being used as impermeable base. In the Sumgait aluminum works, the bottom parts of the exhaust pipes receive protective coatings of epoxide varnish made of ED-6 (ED-6) synthetic resin (with polyethylene as hardener). Silicone varnish type FC-9 (FC-9) is used for coating the outer surface of the heaters in distilling plants and for other purposes. It is suitable for the coating of apparatus heated to 200-250°C. "Chlorin" fabric is suitable as a base for the lining of etching baths and absorption towers. In the near future the "Montazhkhimzashchita" trust jointly with the NIIZhB will study the possibilities of using polymer concrete, based on furfural acetone, in connection with various structural fillers for industrial works.

Card 2/2

OLUKHEN'KIY, Timofey Titovich, professor; MARKOV, Ivan Ivanovich, dotsent;
VIZIR, Dmitriy Ivanovich, kandidat meditsinskikh nauk; KIRICHENSKIY,
A.P., redaktor; GITSHTEYN, A.D., tekhnicheskly redaktor

[The Trushavets health resort and its facilities] Kurort Trushkavets
i ego lechebnye faktory. Kiev, Gos. med. izd-vo USSR, 1956. 98 p.
(TRUSKAVETS---DESCRIPTION) (MLRA 9:12)

GLUKHEN'KIY, Timofey Titovich; MARKOV, I.I.; VIZIR, D.I.

[Truskanets health resort and its therapeutic resources] Kurort
Truskavets i ego lechebnye faktory. 3.izd. Kiev, Gos.med.izd-vo
USSR, 1958. 99 p. (MIRA 12:4)
(TRUSKAVETS--DESCRIPTION)

VOL'BERG, N.Ye.; DAYDARAK, K.M.; DEBAT, M.P.; KOFERIN, V.V.;
POLSKANOV, A.N.; RABINOV, V.G.; SALAGIN, A.V.; TIMOFEYEV,
A.I.; FLAMITSUZOV, Ya.I.; KOLTYANSKIY, A.K., glav. red.;
JUDAKOV, G.G., zam. glav. red.; IGSELOVSKIY, I.V., red.;
ORLOV, V.N., red.; ONKIN, A.K., red.; NIKOLAYEVSKIY,
Ye.Ya., red.; MARKOV, I.I., red.; MEL'NIK, V.I., red.;
STAKOVEROV, I.G., red.; TUSHNYAKOV, M.D., red.; CHERNOV,
A.V., red.; KRYLOV, V.A., nauchn. red.

[Assembly of technological equipment of chemical plants]
Montazh tekhnologicheskogo oborudovaniia khimicheskikh
zavodov. Moskva, Stroiizdat, 1964. 619 p.

(MIRA 17:11)

MARKOV, I. I.

Moi metod mekhanizatsii shtukaturnykh rabot (My method of plastering with machinery).
Leningrad, Gos. izd-vo lit-ry po stroit. i arkhitekt., 1953. 76 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 6, Sep. 1954

ALFEROV, A.S.; MARKOV, I.I.

Plastering outfit. Mekh. stroi. 12 no.6:20-25 Ja '55.
(Plastering) (MIRA 8:6)

MARKOV, I.^I, inzhener.

Eliminating dampness in walls. Sel'.stroi. 11 no.6:29 Je '56.
(Dampness in buildings) (MIRA 9:9)

MARKOV, I.I.

Machine for grinding and slaking lump lime [Suggested by I.I.
Markov]. R+e. 1 izobr. predl. v stroi. no.6:125-130 '58.
(Lime industry--Equipment and supplies) (MIRA 11:10)

MARKOV, Ivan Ivanovich; MARKOV, I.I., red.

[Build logging roads faster and less expensive. Krovit'
lesovozny dorogi i stree i denezhie. Petrozavodsk, Kareli-
skoe knizhnoe izd-vo, 1963. 113 p. (MIRA 17:7)

VERVE'KINA, A.K., inzh.; KOLCHINSKIY, Yu.L., inzh.; NIKOLAYEVSKIY, Ye.Ye., inzh.; MODIG'OVA, R.G., inzh.; RYAPOLOV, A.F., inzh.; SOKOL, I.A., inzh.; STERLE, S.L., inzh.; EYDEL'MANT, L.B., inzh.; ORLOV, V.M., kand. tekhn. nauk, retsenzent; YURGEL', B.I., inzh., retsenzent; FUKIT, V.Ya., inzh., nauchn. red.; VOLNYANSKIY, A.K., glav. red.; GUDAKOV, G.G., zam. glav. red.; IOSELOVSKIY, I.V., red.; KARKOV, I.I., red.; MEL'NIK, V.I., red.; ONKIN, A.K., red.; STAROVEROV, I.G., red.; TUSHYAKOV, M.M., red.; CHERNOV, A.V., red.

[Engineering pipelines for industrial enterprises] Tekhnologicheskie truboprovody promyshlennykh predpriyatii. Moskva, Stroiizdat, 1964. 2 v. (MIRA 17:12)

VERVEYKINA, A.K., inzh.; KOLCHINSKIY, Yu.L., inzh.; NIKOLAYEVSKIY,
Ye.Ya., inzh.; RODIONOVA, R.G., inzh.; RYAPOLOV, A.F., inzh.;
SOKOL, I.A., inzh.; ~~STERLIN, S.L., inzh.~~; EYDEL'NANT, L.B.,
inzh.; ORLOV, V.M., kand. tekhn. nauk retsenzent; YURGEL', B.I.,
inzh., retsenzent; FOKIN, V.Ya., inzh., ~~retsenzent~~.red.; VOLNYANSKIY, A.K.,
red.; MARKOV, I.I., red.; MEL'NIK, V.I., red.; ONKIN, A.K.,
red.; STAROVEROV, I.G., red.; TUSHNYAKOV, M.D., red.; CHERNOV,
A.V., red.; SUDAKOV, G.G., red.; IOSELOVSKIY, I.V., red.

[Technological pipings in industrial enterprises] Tekhnologicheskies truboprovody promyshlennykh predpriatii. Moskva, Stroizdat. Pt.1. 1964. 784 p. (MIRA 18:9)

MARKOV, I.I., dotsent

Seasonal periodicity in the course of peptic ulcers. Vrach.delo
no.6:581-583 Je '57. (MLRA 10:8)

1. Kafedra gosptal'noy terapii (zav. - prof. T.T.Glukhen'kiy)
L'vovskogo meditsinskogo instituta
(PEPTIC ULCER) (WEATHER--MENTAL AND PHYSIOLOGICAL EFFECTS)

MARKOV, I.I.. dotsent

Etiology and pathogenesis of seasonal exacerbations and remissions
in peptic ulcer. Vrach.delo no.9:913-915 S '59. (MIRA 13:2)

1. Kafedra gosspital'noy terapii (savoreduyushchiy - prof. T.T. Glukhen'-
kiy) L'vovskogo meditsinskogo instituta.
(PEPTIC ULCER) (CLIMATOLOGY, MEDICAL)

MARKOV, I.I.

Seasonal variations in gastric secretion and acidity in normal dogs and human subjects. Biul. eksp. biol. med. 47 no.5:33-38 My '59.

(MIRA 12:7)

1. Iz kafedry gosspital'noy terapii (zav. - prof. T.T. Glukhen'kiy) i normal'noy fiziologii (zav. - prof. Ya.P. Sklyarov) L'vovskogo meditsinskogo instituta. Predstavlena deystvitel'nym chlenom AMN SSSR V.N. Chernigovskim.

(GASTRIC JUICE,

acidity & secretion, seasonal variations (Rus))

(PERIODICITY,

seasonal gastric acidity & secretion variations (itus))

MARKOV, I.I., dotsert

Seasonal periodicity in the course of hypertension. Nauch.trudy
L'vov.obl.terap.ob-va no.1:29-33 '61. (MIRA 16:5)

1. Kafedra gospiatal'noy terapii L'vovskogo meditsinskogo instituta.
(HYPERTENSION) (WEATHER--MENTAL AND PHYSIOLOGICAL EFFECTS)

MARKOV, I.I., med. nauk k. d. s. n. s., k. a. n. s. n. s.

Differential diagnosis of clinical and anatomical forms of toxic goiter. Sov. med. 28 no. 4: 4-8 Apr '65.

1. Kafedra gosital'noy terapii (zav. - doktor med. n. s. I. I. Markov) L'vovskogo meditsinskogo instituta.

MARKOV, Ivan Ivanovich; SHATYRKO, Aleksey Semenovich; KAMINUE, M.,
red.

Truskavets. L'viv, Kameniar, 1965. 87 p. (CIPA 16:4)

MENSKIY, B.M.; MAREY, I.M., kandi. tekhn. nauk, 1st nat. univ. of Kiev.

[Textbook for the course "Theory of automatic control of
correcting devices and their synthesis by the
frequency method] Uchebnoe posobie po kursu "Teoriya av-
tomaticheskogo regulirovaniya; korrektsionnyye ustroi-
stva i ikh sintez chastotnym metodom. Moskva, Vsesoyuz-
noy energ. inst., 1964. 189 p. (MirA 1964)

MARKOV, I.N. (Tyumenskaya oblast')

Rhomboid novocaine block in gastritis and peptic and duodenal
ulcer. Klin.med. 35 no.6:119 Je '57. (MIRA 10:8)

1. Iz vrachebnogo uchastka zernosovkhoz "Kommunar" Isetskogo
rayona Tyumenskoy oblasti
(NOVOCAINE) (PEPTIC ULCER) (STOMACH--DISEASES)

MARKOV, I.N., RZHEVSKIY, P.N. (Vrachebnyy uchastok zernosovkhoza "Kommunar"
Isetskogo rayona Tyumenskoy oblasti)

Recording and controlling prophylactic measures. Fel'd i akush.
23 no.5:50 My '58 (MIRA 11:6)
(VACCINATION)

MARKOV, I.N.

Preliminary clinical and experimental data on epidural (peridural) anesthesia with filled solutions. Akt. vop. obezbol. no.2:207-211
'59. (MIRA 14:5)

1. Iz khirurgicheskoy kliniki 3-y kafedry khirurgii TSentral'nogo instituta usovershenstvovaniya vrachey (zaveduyushchiy - zasluzhennyy deyatel' nauki prof. B.S.Rozanov) na baze Moskovskoy gorodskoy bol'nitsy im. S.P.Botkina (glavnyy vrach prof. A.N.Shabanov).
(ANESTHESIA)

MARKOV, I.N.

Epidural lumbar anesthesia with filled solutions. Akt. vop.
obezbol. no.2:212-218 '59. (MIRA 14:5)

1. Iz 3-y kafedry khirurgii (zaveduyushchiy - zasluzhennyy deyatel'
nauki prof. Rozanov) Tsentral'nogo instituta usovershenstvovaniya
vrachey i khirurgicheskoy kliniki bol'nitsy im. S.P.Botkina.
(ANESTHESIA)

MARKOV, I.N.

Obliterating endarteritis; from data of the Tumen Province hospital.
Sov. med. 23 no.5:95-100 My '59. (MIRA 12:7)

1.. Iz 2-go khirurgicheskogo otdeleniya (zav. L.Ya. Shnitser) Tyu-
menskoy oblastnoy bol'nitsy (glavnyy vrach A. A. Moiseyenko).
(THROMBOANGIITIS OBLITERANS
etiol. & ther. (Rus))

MARKOV, I. N.

Cand Med Sci - (diss) "Peridural anesthesia using filling solutions."
Moscow, 1961. 20 pp; (Second Moscow State Medical Inst imeni N. I.
Pirogov); 250 copies; free; (KL, 5-61 sup, 204)

MARKOV, I. N.

Fortieth anniversary of the use of peridural anesthesia. Vest.
khir. no.2:92-98 '62. (MIRA 15:2)

1. Iz khirurgicheskoy kliniki 1-y kafedry khirurgii (zav. - prof.
B. S. Rozanov) Tsentral'nogo instituta usovershenstvovaniya vrachev
na baze Moskovskoy gorodskoy bol'nitsy im. S. P. Botkina (gl. vrach -
prof. A. N. Shabanov)

(SPINAL ANESTHESIA)

MARKOV, I.P.; MARKOV, N.N.; POLYAKOVA, N.V.; YURIN, B.A., red.;
ANDREYEVA, L.S., tekhn. red.

[Textile workers trade union; a brief historical sketch]
Profsoiuz tekstil'shchikov; kratkii istoricheskii ocherk.
[By] I.P.Markov, 1 dr. Moskva, Profizdat, 1963. 238 p.
(MIRA 16:6)

(Textile workers) (Trade unions)

6(7)

PHASE 1 BOOK EXPLOITATION

SOV/3162

Markov, Ivan Pavlovich

Linii peredachi (Transmission Lines) Moscow, Voenizdat, 1958.
108p. (Series: Radiolokatsionnaya tekhnika) No of copies printed
not given.

Ed.: A. V. Vrublevskiy, Engineer-Lt. Colonel; Tech. Ed.:
R. F. Anikina.

PURPOSE: This booklet is intended for military officers working
with radio equipment. It may also be of interest to the general
reader interested in obtaining information on the operation of
separate units and components of radar.

COVERAGE: The author examines problems of current and voltage wave
propagation in transmission lines (two-wire and coaxial), form-
ation of traveling and standing waves, special properties of
lines under various types of load, and presents examples of
matching, bracing and coupling lines. He also presents general
information on various types of transmission lines and some data
on phantom lines. No personalities are mentioned. There are no
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Transmission Lines

SOV/3162

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AVAILABLE: Library of Congress (TK6587.M3)

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JP/ec
2-9-60

MARKOV, Ivan Pavlovich; KARUS', A.P.. inzh.-podpolkovnik, red.;
MSDENIKOVA, I.M., tekhn.red.

[Electronic oscillograph] Elektronnyi ostsillograf.
Moskva, Voen.izd-vo M-va obor.SSSR, 1959. 104 p.

(MIRA 12:12)

(Cathode ray oscillograph)

1. MARKOV, I. S.
2. USSR-(600)
7. Silosovaniye Kormov v Usloviyakh Kraynego Severa (The Ensilage of Fodders in the Conditions of the Far North), 36 pp, Moscow, 1951.

9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132. Unclassified.

MARKOV, I. S.

Sheep - Komi A.S.S.R.

Development of sheep husbandry in the Komi A.S.S.R. Sov. zhiv. zh. i sh. , 1962.

Monthly List of Russian Accessions, Library of Congress. November, 1962. UNCLASSIFIED.

1. MARKOV, I. S.

2. USSR (600)

4. Cattle Breeds

7. Vychehda-Vym' cattle. Sots. zhiv. 14 no. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

Мухомов, И. С.

Ias'thishe nos kormi...
Krainego Severa / Far North... cattle in the Far North...
Moskv., Sel'khozgiz, 1953. 116 p.

SC: Monthly List of Russian Accessions, Vol. 1, No. 2 May 1953.

MARKOV, Il'ya Stepanovich

[Ensilage feeds in the Far North] Silosovanie kormov v usloviakh
Krainego Severa. Izd. 2-oe. perer. i dop. Tiimenskoe
knizhnoe izd-vo, 1956. 62 p. (MLRA 10:4)
(Russia, Northern--Ensilage)

Country : USSR
 CATEGORY : Farm Animals. Cattle
 Agr. JOUR. : ZHURN., No. 13, 1966, No. 5916
 AUTHOR : GARNOV, I. S.
 INST. : Scientific Research Institute of Agri-
 TITLE : Reproduction of cattle under Arctic Condi-
 tions
 ORIG. PUB. : Byul. nauchno-tekhn. inform. N.-i. in-t s.
 kh. Krayn. Severa, 1967, No 3, 18-19
 ABSTRACT : 19 cows of the Kholmogory breed, after a
 two-year stay on Dixon Island, had their
 lactation period prolonged from 272 to 300
 days. Individual cows were not impregnated
 during three years. The grazing of animals
 in springtime on pastures was increasing the
 possibility of fertilization. Winter and
 early spring were the most unfavorable sea-
 sons for successful fecundation.
 * culture of the Extreme North
 CARD: 1/1

MARKOV, I.S.; SHUBIN, P.N.

Dairy cattle in the Far North of the Komi A.S.S.R. Truly Komi 111
AN SSon no 9:3 15 150. (111 15 1)
(KOMI A.S.S.R. DAIRY CATTLE)

BABUKHADIYA, O.A.; MARKOV, I.V.

Massive ascariasis of the liver with multiple perforation in the abdominal cavity. Ped., akush. i gin. 23 no.3:28-29 '61.

(MIRA 15:4)

1. Chernigovskaya oblastnaya bol'nitsa (glavnyy vrach - K.Kh. Kulikova).
(ASCARIDS AND ASCARIASIS) (LIVER--DISEASES)

ZHUKOV, A.I.; MARKOV, I.V.

Sorption of hydrolyzed ions on cation exchange resins. Part 1:
Washing of the ions of sodium, barium, lanthanum uranium(VI),
thorium, and uranium(IV) from columns with KU-1 and Ku-2 resins
by means of hydrochloric acid and an ammonium chloride solution.
Izv. vys. ucheb. zav.; khim. 1 khim. tekhn. 4 no. 2:247-252 '61.
(MIRA 14:5)

1. Ural'skiy politekhnicheskiy institut im. S.M. Kirova.
(Ion exchange resins) (Metals)

MARKOV, I. [V.27], (Col Gen, Engr-Tech Serv)

Markov, I. [V.27], (Col Gen, Engr-Tech Serv)-author of article, "The Main Tasks of Aviation Engineers," on the duties of air force engineers and technicians. The article stresses that engineers to be demanding, authoritative officers, must maintain high standards of discipline and organization in their work and of accuracy in carrying out the orders of their superiors. It calls on them to both teach their subordinates and take active part in technical work. It lists: TOLSTYKH, FILIPOV, and BAKHIN as excellent examples of officers who have done their jobs well. (Krasnaya Zvezda, 1950 Jan 10)

SC: SIM 16, 10 July 1950.